

Title (en)
DISPENSERS, DISPENSER SYSTEMS AND REFILL UNITS CONFIGURED FOR AUTONOMOUS FIRMWARE/SOFTWARE UPDATES

Title (de)
SPENDER, SPENDERSYSTEME UND NACHFÜLLEINHEITEN FÜR AUTONOME FIRMWARE-/SOFTWAREAKTUALISIERUNGEN

Title (fr)
DISTRIBUTEURS, SYSTÈMES DE DISTRIBUTION ET UNITÉS DE RECHARGE CONFIGURÉS POUR DES MISES À JOUR AUTONOMES DE MICROLOGICIEL/LOGICIEL

Publication
EP 4171337 A1 20230503 (EN)

Application
EP 21739853 A 20210616

Priority
• US 202063043180 P 20200624
• US 2021037539 W 20210616

Abstract (en)
[origin: US2021401239A1] Exemplary embodiments of dispensing systems, dispensers, refill units, methods for autonomously updating firmware and/or software in dispensers are disclosed herein. An exemplary dispenser includes a processor, dispenser memory, firmware for controlling one or more operations of the dispenser and a receptacle for receiving a refill unit. A reader for reading information from a near field communication tag is also included. The refill unit includes a near field communication tag secured thereto. Memory is located on the near field communications tag. Data stored on the memory. The data contains firmware update instructions. When the refill unit is installed in the receptacle, the reader reads the data. The processor causes the dispenser firmware to be updated by the firmware update instructions read from the near field communications tag on the refill unit.

IPC 8 full level
A47K 5/12 (2006.01)

CPC (source: EP US)
A47K 5/1217 (2013.01 - EP US); **G06F 8/65** (2013.01 - US); **G06K 7/10237** (2013.01 - US); **G06K 19/07705** (2013.01 - US)

Citation (search report)
See references of WO 2021262493A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 11737610 B2 20230829; US 2021401239 A1 20211230; AU 2021296736 A1 20230209; CA 3183799 A1 20211230; EP 4171337 A1 20230503; JP 2023532652 A 20230731; US 2023355043 A1 20231109; WO 2021262493 A1 20211230

DOCDB simple family (application)
US 202117348836 A 20210616; AU 2021296736 A 20210616; CA 3183799 A 20210616; EP 21739853 A 20210616; JP 2022579056 A 20210616; US 2021037539 W 20210616; US 202318352312 A 20230714